BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

ne of work:Improvements to Kalathur layout cross roads in ward No. 11 empunagara

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
						Estimate Cost Rs.		960000.00
SRRB 300-1. Earth work excavation by anual means in hard soil involving an verage horizontal throw upto 2 meters and an verage lift upto 0.5m, excavated surface veled and sides neatly dressed, the disposed arth to be leveled neatly after breaking of ods complete as per specifications complete s per specifications MORTH chapter 3. No. 26/ Item No. 19.2/ PWD SR 2010-11.	cum							
rain Deslitation								
alattur 1st Cross		2	115.00	0.60	0.30	41.40		
alattur 2nd Cross		2	88.00	0.60	0.30	31.68		
alattur3rd Cross		2	78.00	0.60	0.30	28.08		
alattur left side 1st Cross		2	47.00	0.60	0.30	16.92		
alattur left side2nd Cross		2	60.00	0.60	0.30	21.60		
or berm cutting		2	115.00	0.80	0.15	27.60		
		2	88.00	0.60	0.15	15.84		
		2	78.00	0.60	0.15	14.04		
		2	47.00	0.60	0.15	8.46		
or Slab Drain		2	60.00	0.60	0.15	10.80		
or culvert		1	70.00	0.60	0.60	25.20		
		3	5.50	1.80	1.00	29.70		
Basic Rate	72.00					**271.32**	77.76	**21098.00**
Area Weightage @ 8%	5.76							
Total	**77.76**							
emoving B.S Slab of Drain and stacking **age No. 24/ Item No. 5.32/ PWD SR 2010-**	Sqm							
		1	130.00		1.50	195.00		
		1	60.00		1.50	90.00		
Basic Rate	39.60					**285.00**	42.77	**12189.00**
Area Weightage @ 8%	3.17							
Total	**42.77**							
fixing stone slabs of drains and pointing in M (1:3) **Page No. 24/ Item No. 5.33/ PWD**	Sqm						54.16	15435.00
		Qty Vide Item No. 2				**285.00**	~~57.00~~	~~16246.00~~
Basic Rate	47.50							
Add Differnce in Cost of Cement 0.132 x 40.00 =	5.28							
	52.78							
Area Weightage @ 8%	4.22							
Total	**57.00**							
oviding granite slabs of selected quality ughly dressed and fixed in cement ortar(1:6) including fixing curing etc, mplete7.5 cms thick **Page No. 24/ Item No.**	Sqm						305.41	35276.00
ab Drain		1	70.00	1.65		115.50		
						115.50	~~310.26~~	~~35835.00~~
Basic Rate	282.00							

Add Differnce in Cost of Cement 0.132 x 40.00 =	5.28							
	287.28							
Area Weightage @ 8%	22.98							
Total	**310.26**							
Providing and laying in position **plain cement concrete of nominal mix 1:4:8 using 40mm** and down size graded granite metal machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 1.1.4.2, No. 12/ **Item No. 4.3/ PWD SR 2010-**	Cum							
Culvert		3	5.50	1.80	0.15	4.46		
						4.46	3495.96	**15574.50**
Basic Rate	3101.00							
Add Differnce in Cost of Cement 3.40x40.00 =	136.00							
	3237.00							
Area Weightage @ 8%	258.96							
Total	**3495.96**							
SRB 5.2-4 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammered dressed in courses not less than 20 cms high, bond stones, at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 1.13 PWD SR 2010-11 (P 21/L 5.6)	Cum							
Culvert		2x3	5.50	0.60	0.20	3.96		
						3.96	2596.32	**10281.00**
Basic Rate	2348.00							
Add Differnce in Cost of Cement 1.40x40.00 =	56.00							
	2404.00							
Area Weightage @ 8%	192.32							
Total	**2596.32**							
Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6,** edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 **Page No. 22/ Item No. 5.9/ PWD SR 2010-11**	Cum							
		2x3	5.50	0.60	0 60	11 88		
						11.88	3075.84	36541.00
Basic Rate	2792.00							
Add Differnce in Cost of Cement 1.40x40.00 =	56.00							
	2848.00							
Area Weightage @ 8%	227.84							
Total	**3075.84**							

KSRB 4-1.7 : Providing and laying in position **plain cement concrete of nominal mix 1:3:6 using 20mm** and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item**	Cum							
		2x3	5.50	0.60	0.10	1.98		
						1.98	3980.88	**7882.00**
Basic Rate	3510.00							
Add Differnce in Cost of Cement 4.40x40.00 =	176.00							
	3686.00							
Area Weightage @ 8%	294.88							
Total	**3980.88**							
KSRB 15.1.1: Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **Page No. 97/ Item No. 15.1 / PWD SR 2010-11**	Sqm							
		2x3	5.50		0.80	26.40		
						26.40	67.28	**1776.00**
Basic Rate	61.50							
Add Differnce in Cost of Cement 0.02x40.00 =	0.80							
	62.30							
Area Weightage @ 8%	4.98							
Total	**67.28**							
KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 14/ Item No. 4.29/ PWD SR 2010-**	Sqm							
		09x3	4.80		0.23	29.81		
		1x3	5.50		0.60	9.90		
						39.71	237.60	**9435.00**
Basic Rate	220.00							
Area Weightage @ 8%	17.60							
Total	**237.60**							
KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of nominal mix 1:1.5:3 with 20mm** and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached pilasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6,	cum							
For RCC Drains		9x3	1.80	0.60	0.23	6.71		
						6.71	5247.72	**35195.00**

Basic Rate	4539.00								
Add Differnce in Cost of Cement 8.00x40.00 =	320.00								
	4859.00								
Area Weightage @ 8%	388.72								
Total	**5247.72**								
KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.	Qtl								
For Culvert Deck Slab 110 Kg / Cum		1.10	6.71			7.38			
						7.38	5838.48	**43073.00**	
Basic Rate	5406.00								
Area Weightage @ 8%	432.48								
Total	**5838.48**								
KSRB M300-53: Construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) **MORTH**	Cum								
		1	115.00	4.50	0.05	25.88			
		1	86.00	4.50	0.05	19.35			
		1	78.00	4.50	0.05	17.55			
		1	47.00	4.50	0.05	10.58			
		1	60.00	4.50	0.05	13.50			
						86.85	146.88	12756.53	
Basic Rate	136.00								
Area Weightage @ 8%	10.88								
Total	**146.88**								
KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO.	Cum								
For BWSSB Road cutting portion filling		1	115.00	0.60	0.15	10.35			
		1	86.00	0.60	0.15	7.74			
		1	78.00	0.60	0.15	7.02			
		1	47.00	0.60	0.15	4.23			
		1	60.00	0.60	0.15	5.40			
For Road surface		1	115.00	4.50	0.15	77.63			
		1	86.00	4.50	0.15	58.05			
		1	78.00	4.50	0.15	52.65			
		1	47.00	4.50	0.15	31.73			
		1	60.00	4.50	0.15	40.50			
						295.29	1061.64	313491.68	

Basic Rate	983.00							
Area Weightage @ 8%	78.64							
Total	**1061.64**							
500-1. Cleaning the existing WBM road face including removing of binding terials and other foreign matter with wire shes and small picks, sweeping with oms or soft brushes and finally dusting with gunny bags and / or compressed air, to eve bituminous treatment including cost of materials, labour, HOM of machineries plete as per specifications .Page No. 148/	Sqm							
		1	115.00	4.50		517.50		
		1	86.00	4.50		387.00		
		1	78.00	4.50		351.00		
		1	47.00	4.50		211.50		
		1	60.00	4.50		270.00		
						1737.00	8.96	**15570.47**
Basic Rate	8.30							
Area Weightage @ 8%	0.66							
Total	**8.96**							
SRRB 500-9: providing and applying imer coat with bitumen emulsion on pared surface of granular base luding cleaning of road surface and raying primer at the rate of 0.60kg/sqm ng mechanical means complete as per ecifications. **page No. 148/ Item No. .6/ PWD SR 2010-11**	Sqm							
			(Qty Vide Item no 16)			1737.00	24.62	**42771.89**
Basic Rate	22.80							
Area Weightage @ 8%	1.82							
Total	**24.62**							
SRRB M500-18: Providing and laying **semi ense bituminous concrete 25mm thick ith 100-120 TPH** batch type HMP producing n average output of 75 tonnes per hour using rushed aggregates of specified grading, emixed with bituminous binder at 4.5 to 5% mix and filler, transporting the hot mix to ork site, laying with a hydrostatic paver isher with sensor control to the required ade, level and alignment, rolling with smooth heeled, vibratory and tandem roller to hieve the desired compaction as per ORTH specifications clause No. 500.8 mplete in all respects as per specifications. **ith 80/100 grade bitumen. No. 151/ Item**	Cum							
		1	115.00	4.50	0.025	12.94		
		1	86.00	4.50	0 025	9.68		
		1	78.00	4.50	0.025	8.78		
		1	47.00	4.50	0.025	5.29		
		1	60.00	4.50	0.025	6.75		
						43.43	7213.57	313249.21
Basic Rate	6679.23							

Area Weightage @ 8%	534.34							
Total	**7213.57**							
...rt for Disposal of Debris shall be payable at ...e rates by Mechanical means inlcuding ...ading and unloading. From 0.00 to 2.00 Km (...ge No 123	Cum							
		Qty. Vide Item No. 1				271.32		
...erage Weight of Earth 1.28 Ton/Cum	Mtone					347.29		
...sic Rate Lead Charges Upto 2.00 Kms	5.12					243.10	67.32	16365.68
...D SR 2010-11 (P.118/I.17.1) For loading ...d unloading	62.20					Lead Not apply		
Total	**67.32**							
...scesallaneous Charges	L/S							669.06
							Total	960000.00

(Rupees Nine Lakhs Sixty Thousand Only)

...ICATE:

...e work spot has been inspected and the work is found necessary.
...is estimate is prepared as per PWD SR of 2010-11.
...e provisions were made in this estimate are necessary and adequate.
...is works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranayapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative approval for Rs. 9.60 Lakhs
Rupees Nine Lakhs Sixty Thousand
only
is accorded under head P-2201 MLA
grants for the Year 2011-12
registered as EE No: 222 /25/07/11 Subject
to conditions contained enclosed memo.
No: 222/2011-12 Dr. 25/07/11

AE/JE

EE (BTP. Div.) 25/7

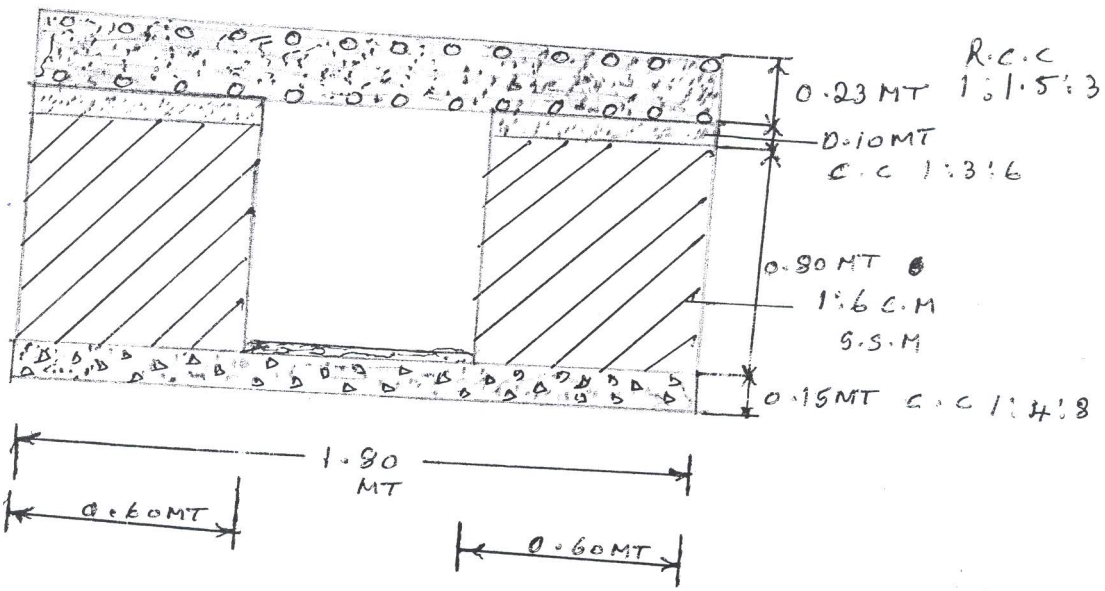
Technical Sanction for Rs. 9.60 Lakhs
Rupees Nine Lakhs Sixty Thousand
only
under P-2201 MLA grants for the
Year 2011-12
registered as EE No: 222 /25/07/11 Subject
to conditions contained enclosed memo.
No: 222 /2011-12 Dr. 25/07/11

AE/JE

EE (BTP. Div.) 25/7

Name of Work:- Improvements to Kalathur layout cross roads in ward No. 11 Kuvempunagara

CROSS SECTION OF PROPOSED CULVET



CROSS SECTION OF PROPOSED Road and B.S. Slab Drain